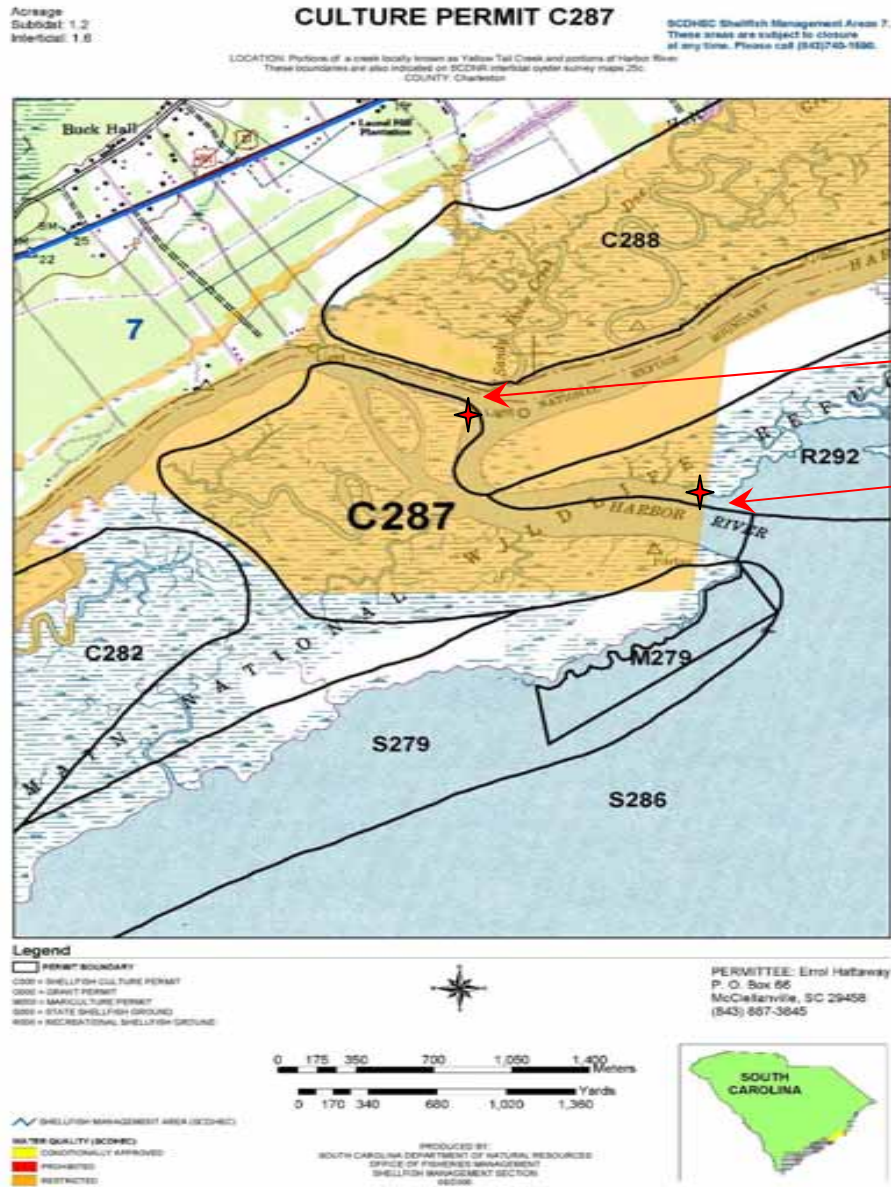


SRFAC 2007 Planting Sites for Alternative Materials



Hattaway's
Lease, C287

R292, washed
Shell, eroding
shoreline

Site 1

Average Slope (in picture) = 0.13

Average Grade (in picture) = 7°

Slope = 0.15

Grade = 9°

Slope = 0.08

Grade = 5°

Slope = 0.13

Grade = 7°

Slope = 0.12

Grade = 7°

Slope = 0.16

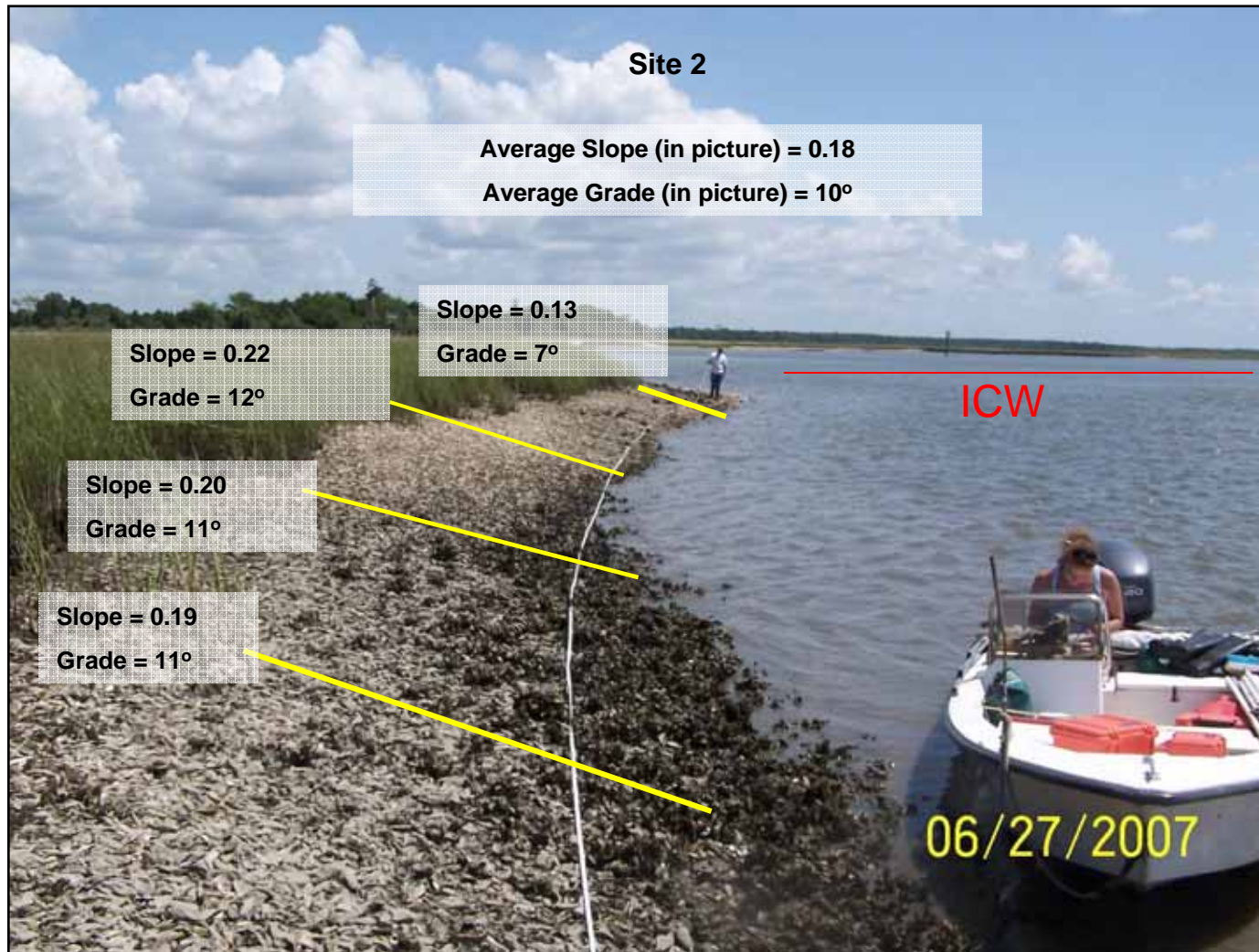
Grade = 9°

Slope = 0.15

Grade = 9°

06/27/2007

Shoreline along R292 (see map), >100 m useable shoreline (high erosion)



**E. Hattaway's Lease (C287), shoreline over 46 m,
ICW behind Lee in background**

On E. Hattaway's Lease
C287. Near ICW, two signs with
arrows left and right above the
plantings.



Middle Reef
79.32.702 W
33.02.311 N

33 bags (11 x 3) of
whelk shell, covered 5 m²,
rebar end of each row, reefs
2 m x 2.5 m



5 m² quadrat, width 2.5 m,
Height, 2 m





We will be using whelk shell in bags and loose (see slides 4 & 5) at C287 (see slides 1 & 2) and the other above circled five materials, SC, fossil and Gulf oyster shell and limestone and crushed, clean concrete (#4) at R292 (a Recreational Shellfish Ground, slide 2) closed to harvesting by DHEC and currently subject to significant erosion (see slides 1 & 2)

Far Left



Block A Rep 1

Fossil, 7/25/07

Block 1A

Rep 1

Limestone, 7/25/07

Block 2A

Rep 1

Concrete, 7/25/07

Block 3A

Rep 1

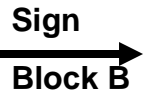
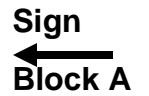
SC, 7/18/07

Block 4A

Rep 1

Gulf, 7/25/07

Block 5A



Rep 2

Fossil, 7/25/07

Block 1B

Rep 2

Gulf, 7/25/07

Block 2B

Rep 2

SC, 7/18/07

Block 3B

Rep 2

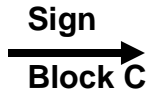
Limestone, 7/25/07

Block 4B

Rep 2

Concrete, 7/25/07

Block 5B



Rep 3

SC, 7/18/07

Block 1C

Rep 3

Concrete, 7/25/07

Block 2C

Rep 3

Gulf, 7/25/07

Block 3C

Rep 3

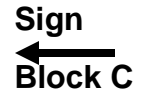
Fossil, 7/26/07

Block 4C

Rep 3

Limestone, 7/25/07

Block 5C



Rep 4

Gulf, 7/25/07

Block 1D

Rep 4

SC, 7/18/07

Block 2D

Rep 4

Fossil, 7/26/07

Block 3D

Rep 4

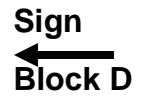
Concrete, 7/25/07

Block 4D

Rep 4

Limestone, 7/25/07

Block 5D



Far Right



**Looking from Block A to D. Each is 5 m², 6 m between blocks;
3 m between 'footprints' within a block; pre-planting**



Block A, Rep. 1, Footprint 4. SC shell, 5 m² (used 25-6.5 gal buckets of shell)



Block C, Rep. 3, Footprint 1. SC shell, 5 m² (used 25-6.5 gal buckets of shell)



One of 4 pairs of signs for each of the four 'blocks' (total of 20 footprints)



Looking from Block C to D. Each reef footprint is 5 m², 6 m between the four blocks; 3 m between each reef 'footprints' within a block. Five depth poles/reef at corners and center of reef



Loading Gulf shell into 6.5 gallon buckets for transport to site (84 total)





Loading fossil shell into DNR dump truck
for transport to field site on barge





Loading recycled concrete into DNR dump trailer for transport to field site on barge





Loading limestone into DNR dump trailer
for transport to field site on barge





Gulf oyster shell loading at Buck Hall





Loading limestone at Buck Hall





Loading fossil shell at Buck Hall





Loading recycled concrete at Buck Hall





Barge all loaded at Buck Hall and Leaving for Harbor River





Loaded barge anchored off Harbor River, R-292
moving material to 20 footprints in July, 2007 (gulf oyster shell and limestone on left and right below)





Raking out fossil oyster shell, R-292, setting up erosion poles/ GPS 'Trimbling' along the shoreline





View of plots along R-292, signs in Harbor River, R-292, 4 blocks, A-D, empty barge after deployment, estimate 20 tons deployed overall

